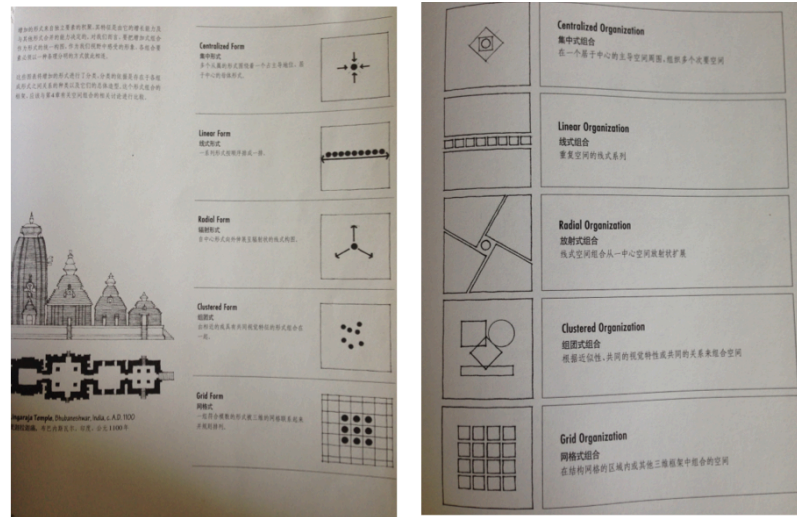


Weekly Report (2013.12.9~12.15)

Done

- 1) This week, I continue looking for a specific target for my research (something to do with map and relation).
 - I have read the book named “建筑：形式、空间和秩序”, which seems related to my research. It describes some “relations”, such as “centralized form, linear form, radial form, clustered form, grid form...”.



But this book is only about the design of buildings, mostly single buildings. All ideas that I can come up with are, for example, find buildings with a specific style or find the potential famous places inside a city (for famous places are always with peculiar shape or layout).

- Go “浙江七巧板信息科技有限公司” together with Prof. Zhang, and talk with its CEO about their data and problems they are facing. This company is a location-based service provider and can provide much data related to location/map (taxi, rental, hotels...).

After discussion, we agree that it may be a good choice to combine these heterogeneous data with Bayesian Network.

Specifically, with the help of “Bayesian Visual Analytics: BaVA”, I have a preliminary idea. We can use all of the data we can get to construct a Bayesian network and do something like prediction. But “all of the data” might be too large for the computer to compute a precise model within an acceptable period of time, I think visual analysis can be placed here, leveraging human perception to modify the model and make it computational. I’ll discuss this idea with Prof. Zhang first.

- Read some basic materials about Bayesian, but still find it hard to understand the examples given in “Bayesian Visual Analytics: BaVA”.
- 2) For the Meteorological Project, when we simply migrate the rendering code of VisNgin into Equalizer, we find some problems. It does not work cause there is something wrong with the “OpenGL Context”, I have consulted Zhiyu for help but find that it is more complex in parallel environment than in a single GPU. I might have find my way to solve this, but not verified yet, still need more time.

To Do

- 1) Discuss about my idea and read more papers about Bayesian network to understand how this model works and how it can be visualized.